

**Safety Data Sheet according to Regulation (EU) No. 1907/2006**

FROWEIN GmbH &amp; Co. KG

Revision date : 08.12.2008

Revision no. : 1,01

**DETMOL-MIC**

00434-0046

**1. Identification of the substance/preparation and of the company/undertaking****Identification of the substance or preparation**

DETMOL-MIC

**Use of the substance/preparation**

Pesticide

**Company/undertaking identification**

FROWEIN GmbH &amp; Co. KG

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Contact person

Inquiry office

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**2. Hazards identification****Classification**

Indications of danger : Irritant, Dangerous for the environment

R-phrases :

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. Composition/information on ingredients****Chemical characterization** ( preparation )

Insecticide capsular suspension concentrate

**Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
204-524-2	122-14-5	Fenitrothion (ISO)	< 25 %	Xn, N R22-50-53

Full text of each relevant R phrase can be found in heading 16.

**4. First aid measures****General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

**After inhalation**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off immediately with plenty of water and soap for at least 15 minutes.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult (eye) doctor immediately.

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**After ingestion**

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.  

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**5. Fire-fighting measures****Suitable extinguishing media**Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

Product does not burn, fire-extinguishing activities according to surrounding.

**Extinguishing media which must not be used for safety reasons**

Full water jet

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO<sub>x</sub>).Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.  

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**6. Accidental release measures****Personal precautions**

Ensure adequate ventilation.

Use personal protective clothing.

Avoid contact with skin, eyes and clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up/taking up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**Additional information**Clean contaminated surface thoroughly.  

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**7. Handling and storage****Handling****Advice on safe handling**

Keep container tightly closed.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**Storage**

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### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

### Advice on storage compatibility

Incompatible with strong bases and oxidizing agents.

### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)** 10

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## 8. Exposure controls/personal protection

### Exposure limit values

#### Exposure controls

##### Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

##### Protective and hygiene measures

Do not breath vapours or spray mist.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

##### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

Use protective face mask with A1-P3 (40 ASt) filter when spraying.

##### Hand protection

Use multipurpose protective gloves (plant protection) when spreading/handling the product.

##### Eye protection

Tightly fitting goggles

Eye wash bottle with pure water.

##### Skin protection

Wear standard protective suit (plant protection) when spreading/handling the product. Rubber apron

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## 9. Physical and chemical properties

### General information

Physical state Suspension

Colour Yellowish

Odour Soft

### Important health, safety and environmental information

	Test method
pH-Value (at 20 °C) :	2 - 8
<b>Changes in the physical state</b>	
Flash point	n.a.
<b>Flammability</b>	
Lower explosion limits	n.a.
Upper explosion limits	
Ignition temperature	n.a.

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Density (at 25 °C) :

1,07 - 1,09 g/cm<sup>3</sup>Water solubility :  
at (20 °C)

Dispersible

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**10. Stability and reactivity****Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**Materials to avoid**

Strong bases., Oxidizing agents.

**Hazardous decomposition products**Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO<sub>x</sub>).Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)**Additional information**

No decomposition if stored and applied as directed.

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**11. Toxicological information****Acute toxicity**LD<sub>50</sub>/oral/rat: > 20000 mg/kgLD<sub>50</sub>/dermal/rabbit: > 5000 mg/kg**Corrosive and irritant effects**

Skin irritation: Non-irritant

Eye irritation: Non-irritant

**Sensitising effects**

May cause sensitization by skin contact.

**Empirical data on effects on humans**

Contact with eyes, skin or oral tissues may cause irritation.

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

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**12. Ecological information****Further information**

Do not flush into surface water or sanitary sewer system.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Highly water contaminating.

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**13. Disposal considerations****Advice on disposal**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

**Waste disposal number of waste from residues/unused products**

200119 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS;  
separately collected fractions (except 15 01); pesticides  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

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150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Re-using the polluted packaging materials is not allowed.

Contaminated packagings are to be treated like the product itself.

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**14. Transport information****Land transport (ADR/RID)**

ADR/RID class	9
Classification code :	M6
Hazard-no.	90
UN number	3082
Hazard label	9
ADR/RID packing group	III
Limited quantity :	LQ 7

**Description of the goods**

Environmentally hazardous substance, liquid, n.o.s. (Fenitrothion (ISO))

**Other applicable information (land transport)**

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

**Inland waterways transport****Marine transport**

IMDG code	9
UN number	3082
Marine pollutant	Yes
EmS	F-A; S-F
Limited quantity :	5 L / 30 kg
IMDG packing group	III
Hazard label	9 + MP

**Description of the goods**

Environmentally hazardous substance, liquid, n.o.s. (fenithrothion)

**Other applicable information (marine transport)**

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

**Air transport**

ICAO/IATA-DGR	9
UN/ID number	3082
Hazard label	9
IATA-packing instructions - Passenger	914
IATA-max. quantity - Passenger	450 L
IATA-packing instructions - Cargo	914
IATA-max. quantity - Cargo	450 L
ICAO packing group	III
Limited quantity Passenger	Y914 / 30 kg G

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**Description of the goods**

Environmentally hazardous substance, liquid, n.o.s. (fenithrothion)

**15. Regulatory information****Labelling**

According to EC-regulations the product is to be labelled as follows:

Labelling on the basis of toxicological data (pls. see item 11) and using the conventional method (assessment procedure)

**Indication of danger**

Xi - Irritant; N - Dangerous for the environment

**Hazardous component(s) to be indicated on label**

Fenitrothion (ISO)

**R phrases**

- 43 May cause sensitization by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

- 02 Keep out of the reach of children.  
13 Keep away from food, drink and animal feedingstuffs.  
23 Do not breathe spray .  
28 After contact with skin, wash immediately with plenty of water and soap .  
38 In case of insufficient ventilation, wear suitable respiratory equipment.  
60 This material and its container must be disposed of as hazardous waste.  
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.  
36/37 Wear suitable protective clothing and gloves.

**National regulatory information**

Employment restrictions	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D) 1999/13/EC (VOC)	3 - highly water contaminating 0 %

**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

- 22 Harmful if swallowed.  
43 May cause sensitization by skin contact.  
50 Very toxic to aquatic organisms.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 May cause long-term adverse effects in the aquatic environment.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*